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·	Application No.	Applicant(s)
Notice of Allowability	10/722,673	GUNTHER ET AL.
Notice of Allowability	Examiner	Art Unit
	Jeffrey S. Smith	2624
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 10/22/7.		
2. The allowed claim(s) is/are <u>1-18</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)	# 	
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	te
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. Examiner's Amendr	ment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	9 Other	ent of Reasons for Allowance
SUPERVISORY PATENT EXAMINER		

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Allowable Subject Matter

Claims 1-18 are allowed.

The following is an examiner's statement of reasons for allowance.

The Examiner agrees with applicant's description of the amended claims over the art of record. Specifically, independent claims 1 and 9 are directed to performing a fine correction of the positional error of a mapping function. Control point structures, each having a plurality of pixels in the image to be rectified and in the reference image, are used, i.e., the corresponding control point structures in the image and in the reference image are used to determine which control point structure is more highly resolved. The less-resolved control point structure is then projected onto the more highly resolved structure. However, it should be noted that the more highly resolved control point structure is not projected onto the less resolved control point structure.

For the projected, less-resolved control point structure and for the more highly resolved control point structure, differences of the gray-scale values of adjacent pixels are calculated and the differences are compared for the two corresponding control point structures. An error value is then determined. By shifting the control point structure in the image or in the reference image and by repeated calculation of the error, a fine position correction can be performed.

Such a fine position correction can be used in accordance with the claimed invention to correct for positional errors in the sub-pixel dimension. As stated previously, the projection is performed from the less-resolved image onto the more highly resolved image. In cases where the projection occurs from the more highly resolved image onto

the less-resolved image, information will be lost. Here, information from different pixels would be used to form new pixels. Such a "fusion" of pixels would always cause a loss of information. A projection, however, onto the more highly resolved image does not cause a loss of information, since the control point structure is already in a state of low resolution.

These features of claims 1 and 9 are not disclosed in the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey S. Smith whose telephone number is 571 270-1235. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571 272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSS November 19, 2007

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